





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE CEIVED

First Named

Inventor Lujun Chen et al.

Appln. No.: 09/843,370

Filed : April 26, 2001

For : GIANT MAGNETORESISTIVE SENSOR

HAVING SELF-CONSISTENT DEMAGNETIZATION FIELDS

Docket No.: S01.12-0730/STL9852

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Technology Center 2600

Group Art Unit: 2652

Examiner:

Brian

Miller

AMENDMENT

Mail Stop Non-Fee Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

I HEREBY CERTIFY THAT THIS PAPER IS BEING SENT BY U.S. MAIL, FIRST CLASS, TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, THIS

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. 2003.

This Amendment is in response to the Office Action mailed on June 16, 2003. Please amend the above-identified application as follows:

IN THE CLAIMS

Please add new claim 18 and amend claim 17 to read as follows:

- 17. (Amended) A method of manufacturing a spin valve sensor for with use data storage system to produce magnetoresistive (GMR) effect in response to applied magnetic fields, the method comprising steps of/:
 - forming a first fer comagnetic (FM) (a) free having a magnetizat \not on (M_1) in a first direction when in a quiescent/state;
 - (b) forming a second FMfree layer magnetization (M_2) in a second direction that is